

Amendments to the Claims:

1. (Currently Amended) A monitoring system for monitoring [[of]] a physiological activity of a recipient, comprising:

a set of sensors configured to be positioned on a recipient's skin to acquire physiological data;

a storage and analysis device connected with the sensors to interpret the acquired physiological data;

each of the sensors including at least one electrode[[s]] having a working surface adapted to be brought into a contact with the recipient's skin, said system being characterized in that each electrode comprises including a body of an electrically conductive elastic material with the working surface exhibiting projections so as of the electrically conductive elastic material to enable a substantially constant position of the contact with the recipient's skin.

2. (Currently Amended) A system according to claim 1, characterized in that wherein the projections are arranged in a substantially uniform distributed pattern over the working surface with spacings between them.

3. (Cancelled)

4. (Currently Amended) A system according to claim 1, characterized in that the electrode body is sandwiched between further including: two layers of insulating material between which the electrode body is sandwiched, tips of the projections being arranged to extend through one of the beyond a body of a isolating layers of insulating material.

5. (Cancelled)

6. (Currently Amended) A system according to claim 1, characterized in that the electrodes are mounted on further including a wearable

~~fabric-based elastic belt of a wearable garment the sensors being mounted on the elastic belt.~~

7. (Currently Amended) An electrode structure for use in a monitoring system ~~according to claim 1~~ the electrode comprising:

an electrically conductive elastic layer;

flexible insulating layers covering and insulating faces of the electrically conductive elastic layer;

a plurality of metallic elements embedded in the electrically conductive elastic layer, the metallic elements having tips which extend through one of the flexible insulating layers, the tips being adapted to make electrical contact with a recipient's skin.

8. (New) The electrode according to claim 7, wherein the electrically conductive elastic layer is a conductive rubber.

9. (New) The electrode according to claim 8, wherein the insulating layers are plastic.

10. (New) The electrode according to claim 9, wherein the metallic elements are sub-millimeter sized.

11. (New) A monitoring system for monitoring a physiological activity of a recipient, comprising:

a set of sensors including electrodes according to claim 7 to acquire physiological data;

a device connected with the sensors to interpret the acquired physiological data.

12. (New) The electrode according to claim 7, further including a plurality of ventilation holes extending through the electrically conductive elastic layer.

13. (New) The monitoring system according to claim 1, wherein the electrode includes:

an electrode body manufactured from the electrically conductive elastic material, the projections being integrally formed with the electrode body to provide a unitary construction.

14. (New) The monitoring system according to claim 13, further including:

holes defined through the electrode body between the integral projections.

15. (New) The monitoring system according to claim 1, further including:

a remote station which is contacted by the storage and analysis device in response to the interpretation of the acquired physiological signal detecting an abnormality.

16. (New) The monitoring system according to claim 1, wherein the electrically conductive elastic material includes an electrically conductive rubber.